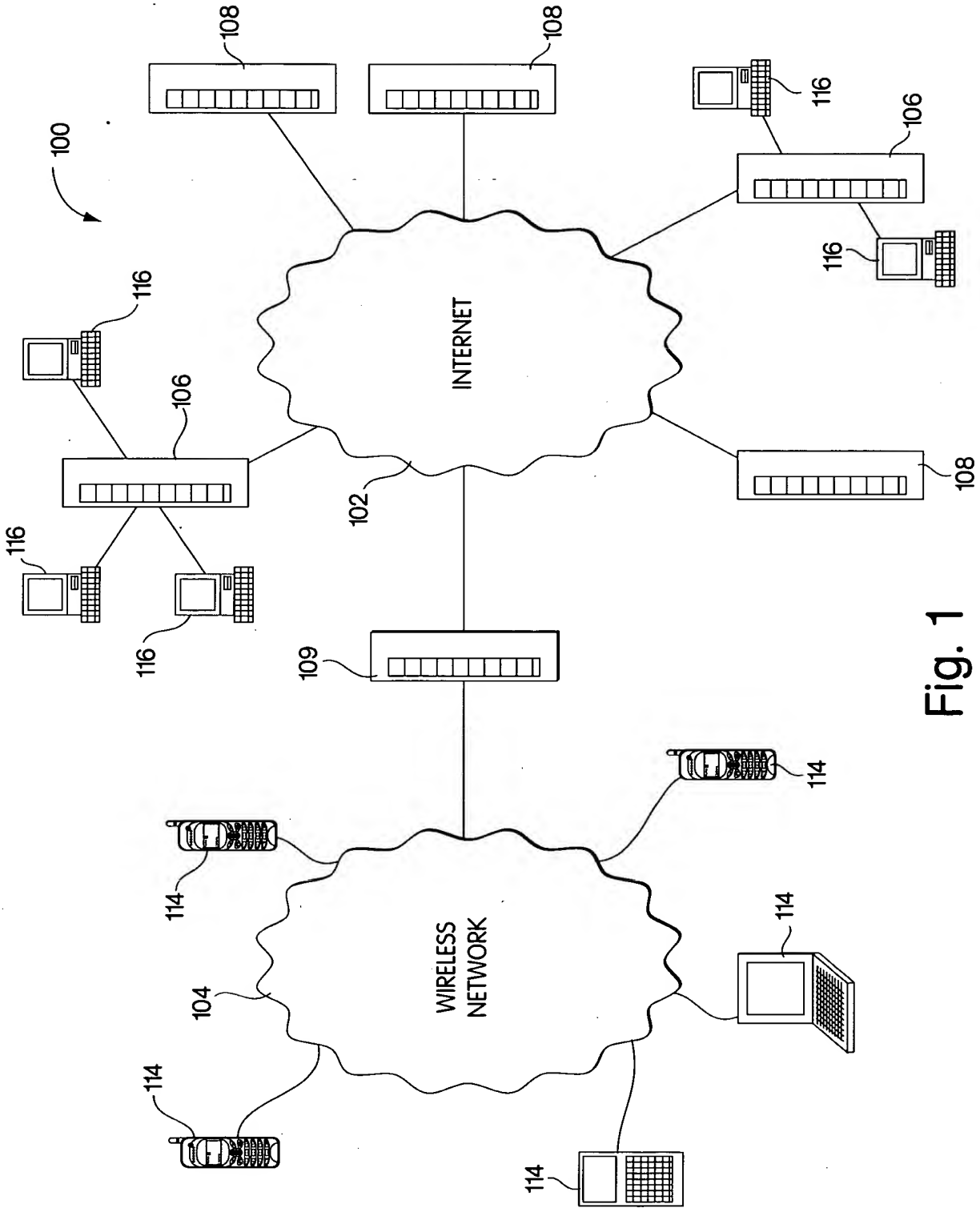
100
108
108
116
106
116
INTERNET
116
106
102
108
116
116
109
114
114
WIRELESS NETWORK
104
114
114
114

Fig. 1

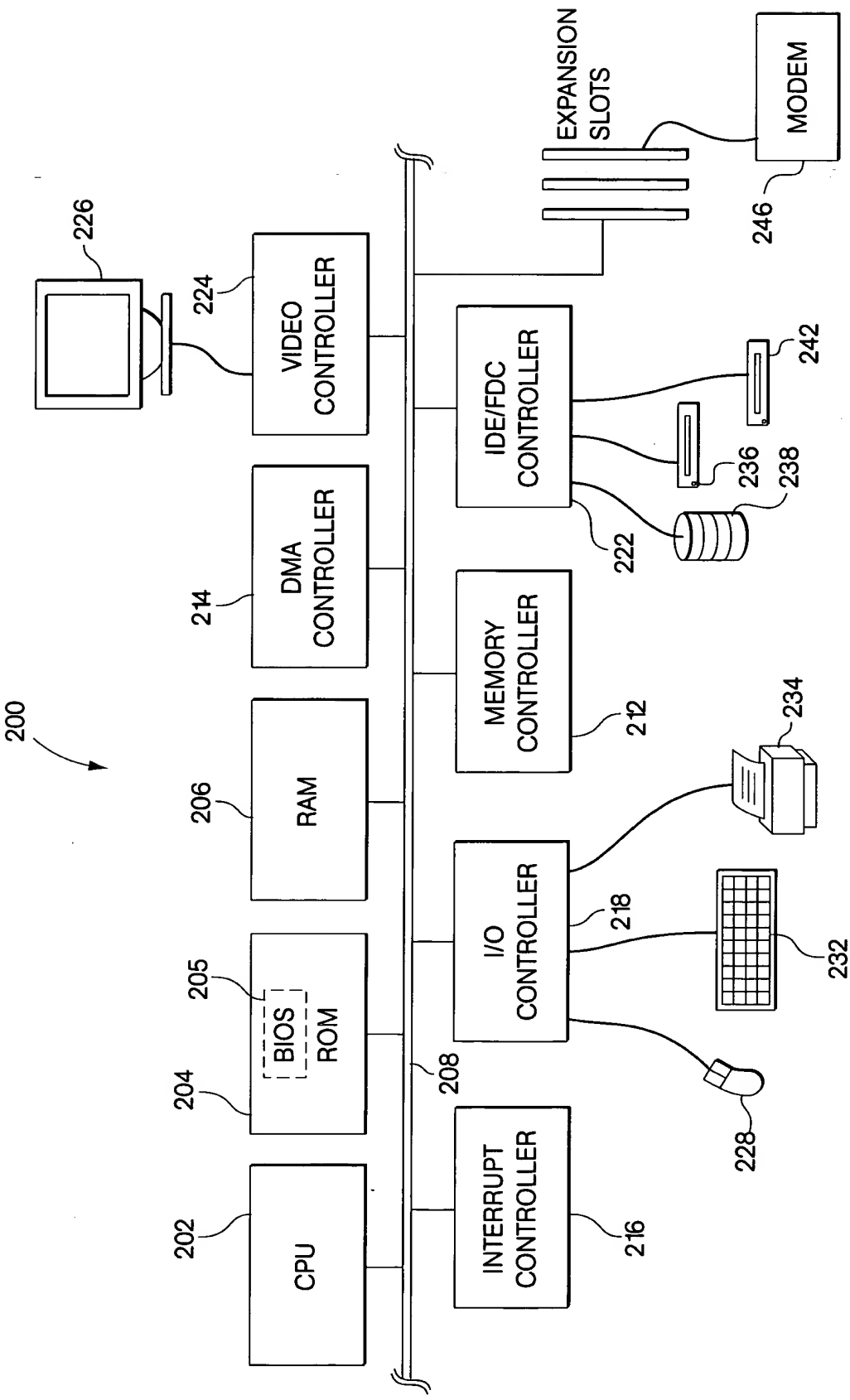
200
CPU
202
BIOS ROM
205
204
RAM
206
DMA CONTROLLER
214
VIDEO CONTROLLER
224
226
INTERRUPT CONTROLLER
216
I/O CONTROLLER
218
208
MEMORY CONTROLLER
212
IDE/FDC CONTROLLER
222
EXPANSION SLOTS
MODEM
246
242
236
238
234
232
228

Fig. 2

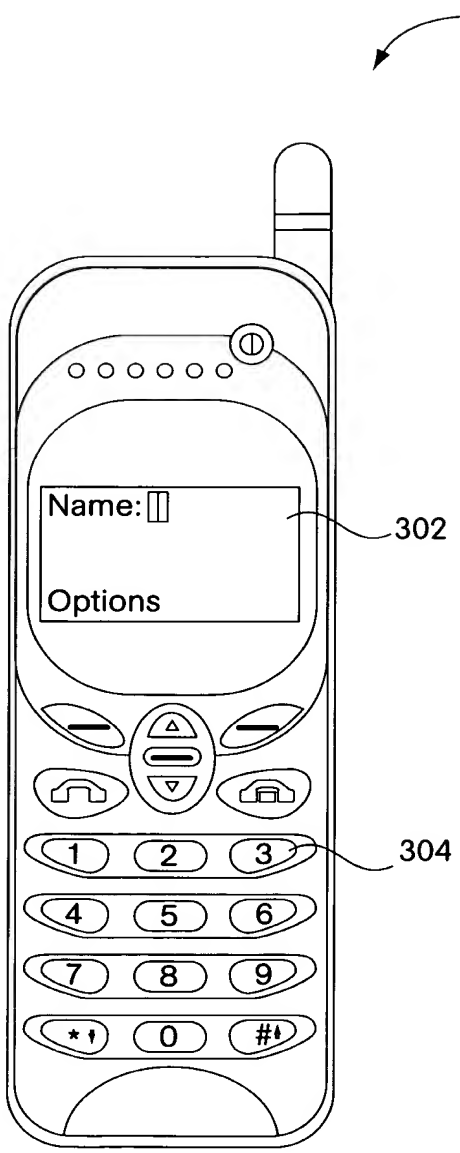


Fig. 3

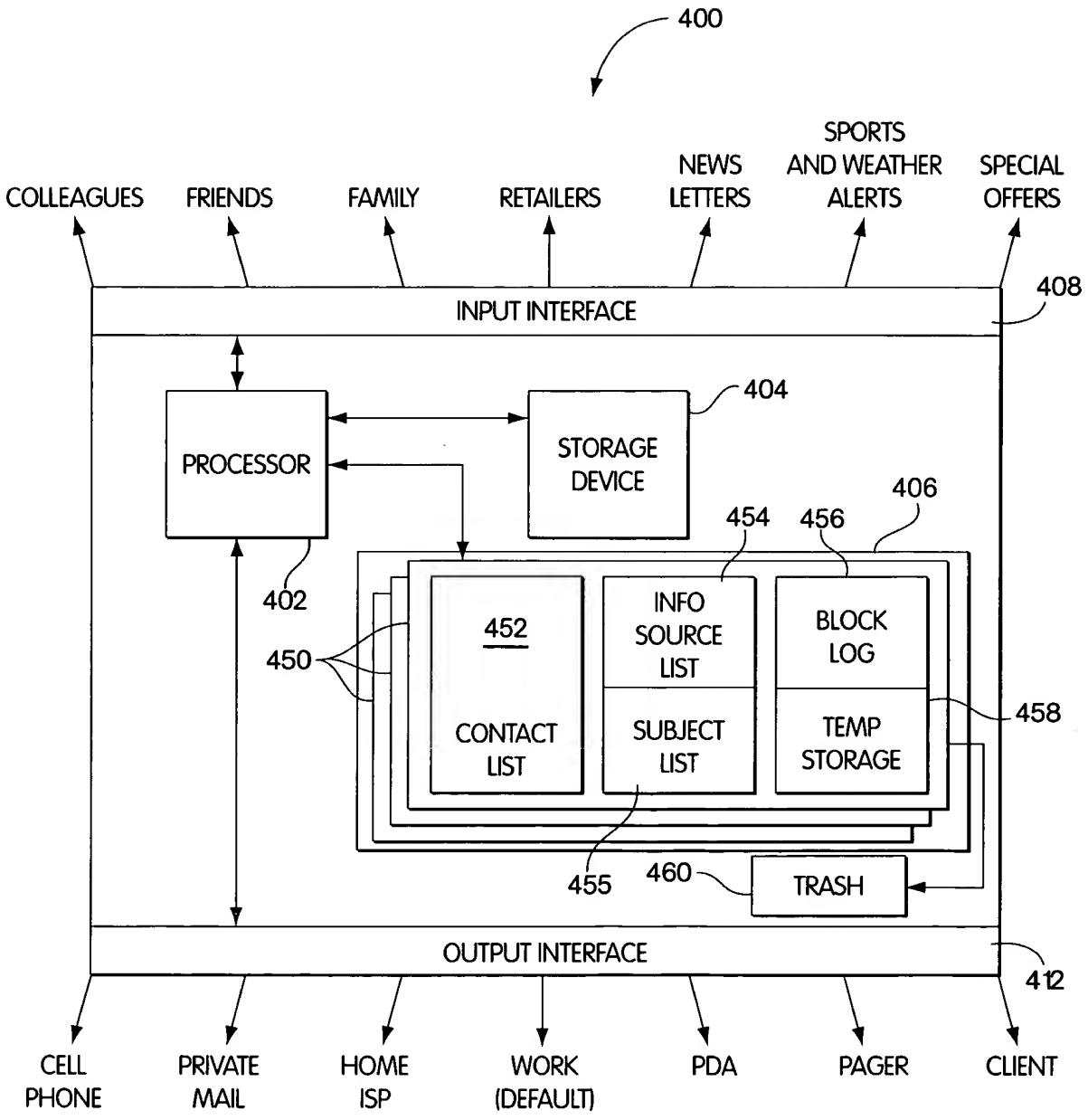
400
COLLEAGUES
FRIENDS
FAMILY
RETAILERS
NEWS LETTERS
SPORTS AND WEATHER ALERTS
SPECIAL OFFERS
INPUT INTERFACE
408
PROCESSOR
STORAGE DEVICE
404
406
454
456
402
450
452
CONTACT LIST
INFO SOURCE LIST
SUBJECT LIST
BLOCK LOG
TEMP STORAGE
458
455
460
TRASH
OUTPUT INTERFACE
412
CELL PHONE
PRIVATE MAIL
HOME ISP
WORK (DEFAULT)
PDA
PAGER
CLIENT

Fig. 4

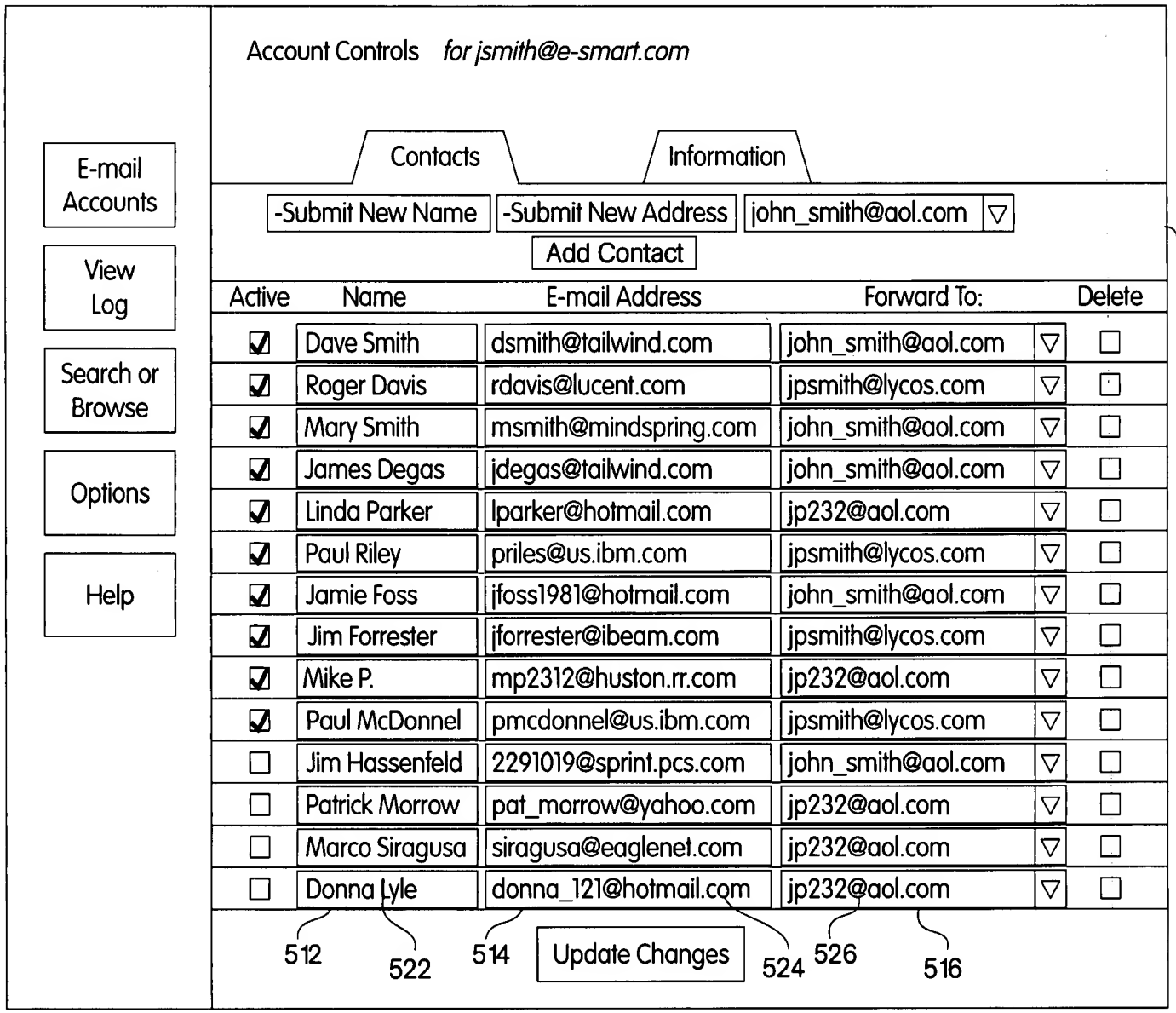
E-mail Accounts
View Log
Search or Browse
Options
Help
Account Controls for jsmith@e-smart.com
Contacts
Information
-Submit New Name
-Submit New Address
john_smith@aol.com
Add Contact
500
Active
Name
E-mail Address
Forward To:
Delete
Dave Smith dsmith@tailwind.com john_smith@aol.com
Roger Davis rdavis@lucent.com jpsmith@lycos.com
Mary Smith msmith@mindspring.com john_smith@aol.com
James Degas jdegas@tailwind.com john_smith@aol.com
Linda Parker lparker@hotmail.com jp232@aol.com
Paul Riley priles@us.ibm.com jpsmith@lycos.com
Jamie Foss jfoss1981@hotmail.com john_smith@aol.com
Jim Forrester jforrester@ibeam.com jpsmith@lycos.com
Mike P. mp2312@huston.rr.com jp232@aol.com
Paul McDonnel pmcdonnel@us.ibm.com jpsmith@lycos.com
Jim Hassenfeld 2291019@sprint.pcs.com john_smith@aol.com
Patrick Morrow pat_morrow@yahoo.com jp232@aol.com
Marco Siragusa siragusa@eaglenet.com jp232@aol.com
Donna Lyle donna_121@hotmail.com jp232@aol.com
510
512
522
514
Update Changes
524
526
516

Fig. 5

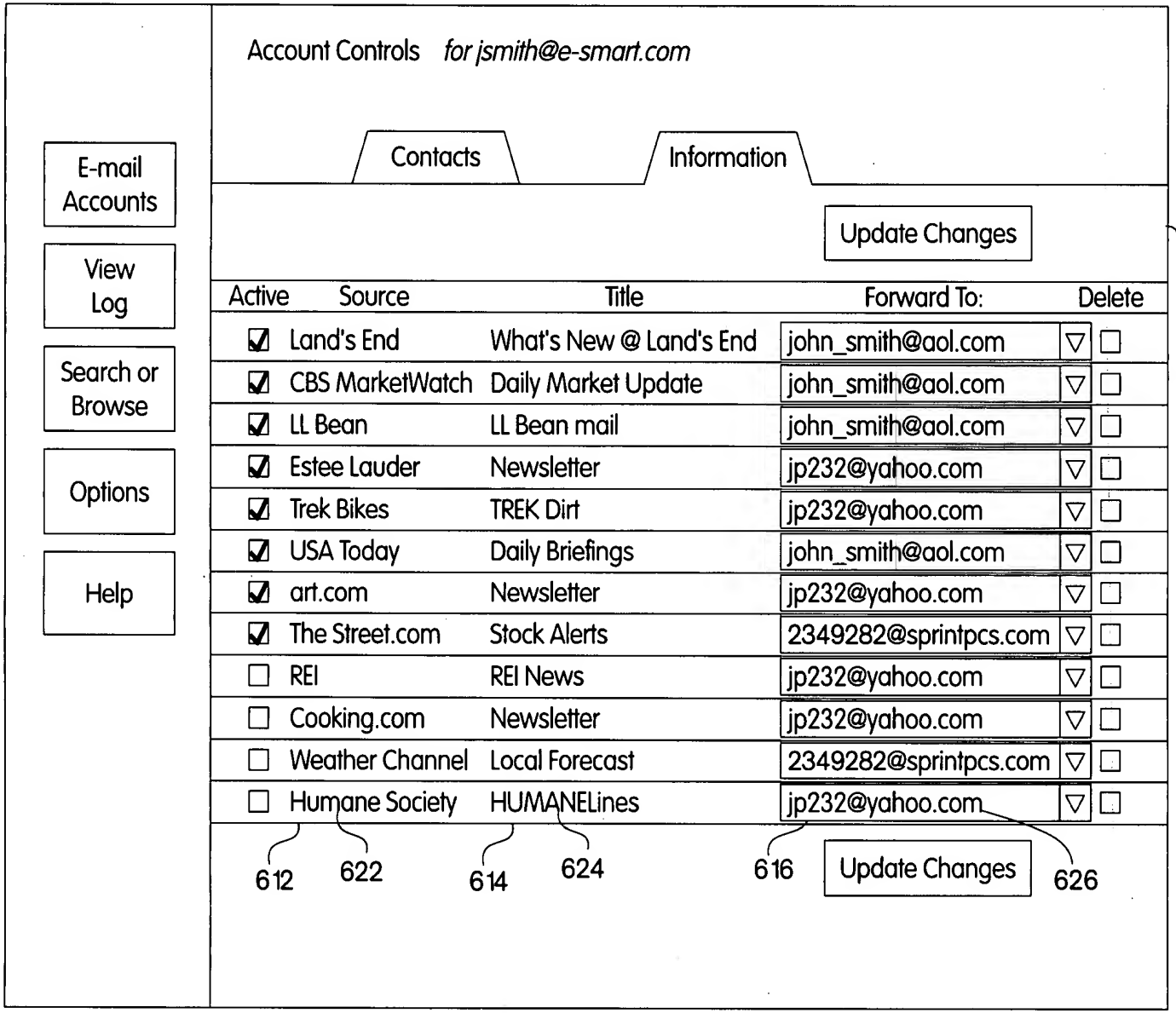
E-mail Accounts
View Log
Search or Browse
Options
Help
Account Controls for jsmith@e-smart.com
Contacts
Information
Update Changes
600
Active
Source
Title
Forward To:
Delete
Land's End
What's New @ Land's End
john_smith@aol.com
CBS MarketWatch
Daily Market Update
john_smith@aol.com
LL Bean
LL Bean mail
john_smith@aol.com
Estee Lauder
Newsletter
jp232@yahoo.com
Trek Bikes
TREK Dirt
jp232@yahoo.com
USA Today
Daily Briefings
john_smith@aol.com
art.com
Newsletter
jp232@yahoo.com
The Street.com
Stock Alerts
2349282@sprintpcs.com
REI
REI News
jp232@yahoo.com
Cooking.com
Newsletter
jp232@yahoo.com
Weather Channel
Local Forecast
2349282@sprintpcs.com
Humane Society
HUMANELines
jp232@yahoo.com
610
612
622
614
624
616
Update Changes
626

Fig. 6

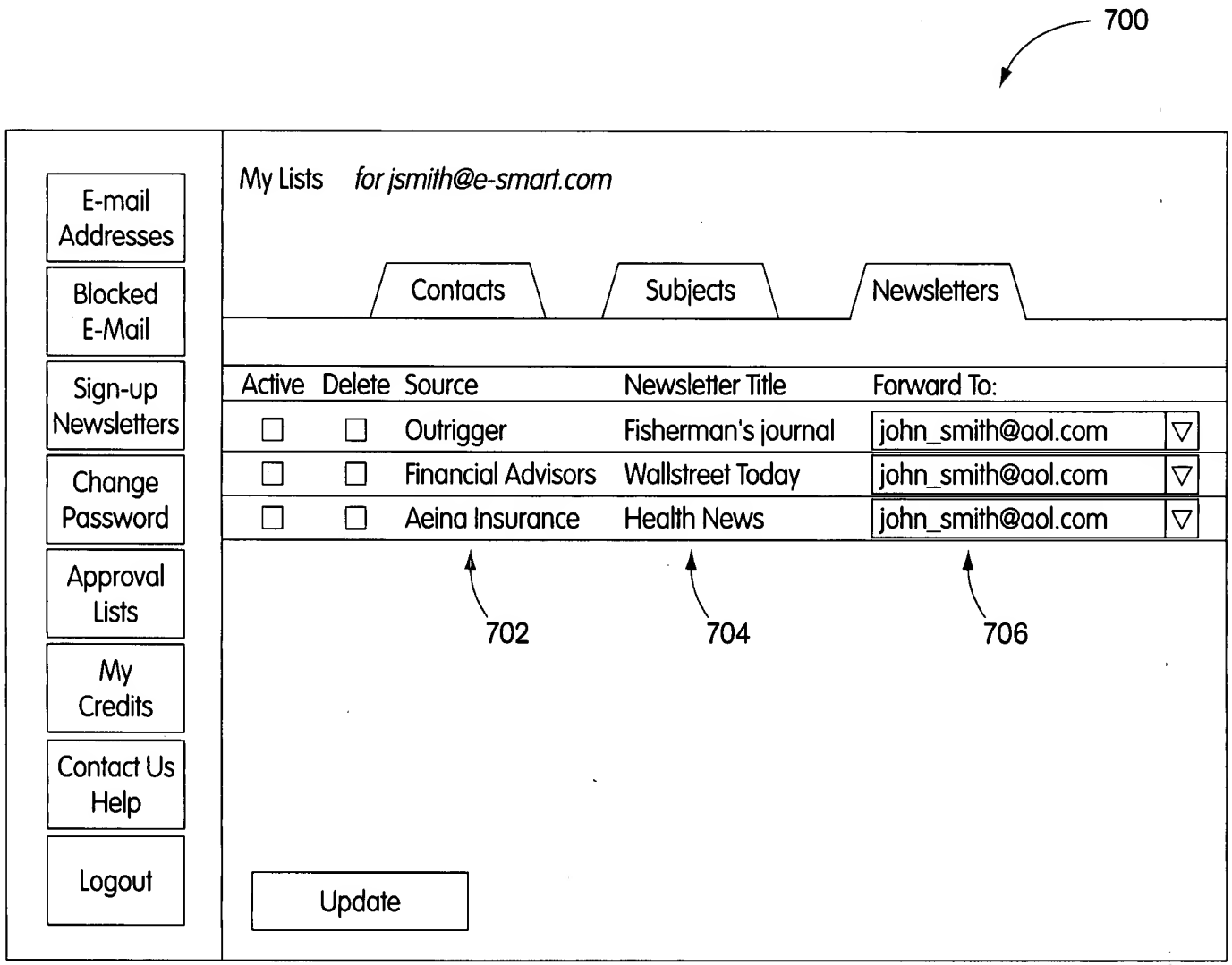
700
E-mail Addresses
Blocked E-Mail
Sign-up Newsletters
Change Password
Approval Lists
My Credits
Contact Us Help
Logout
My Lists for jsmith@e-smart.com
Contacts
Subjects
Newsletters
Active
Delete
Source
Newsletter Title
Forward To:
Outrigger
Fisherman's journal
john_smith@aol.com
Financial Advisors
Wallstreet Today
john_smith@aol.com
Aeina Insurance
Health News
john_smith@aol.com
702
704
706
Update

Fig. 7

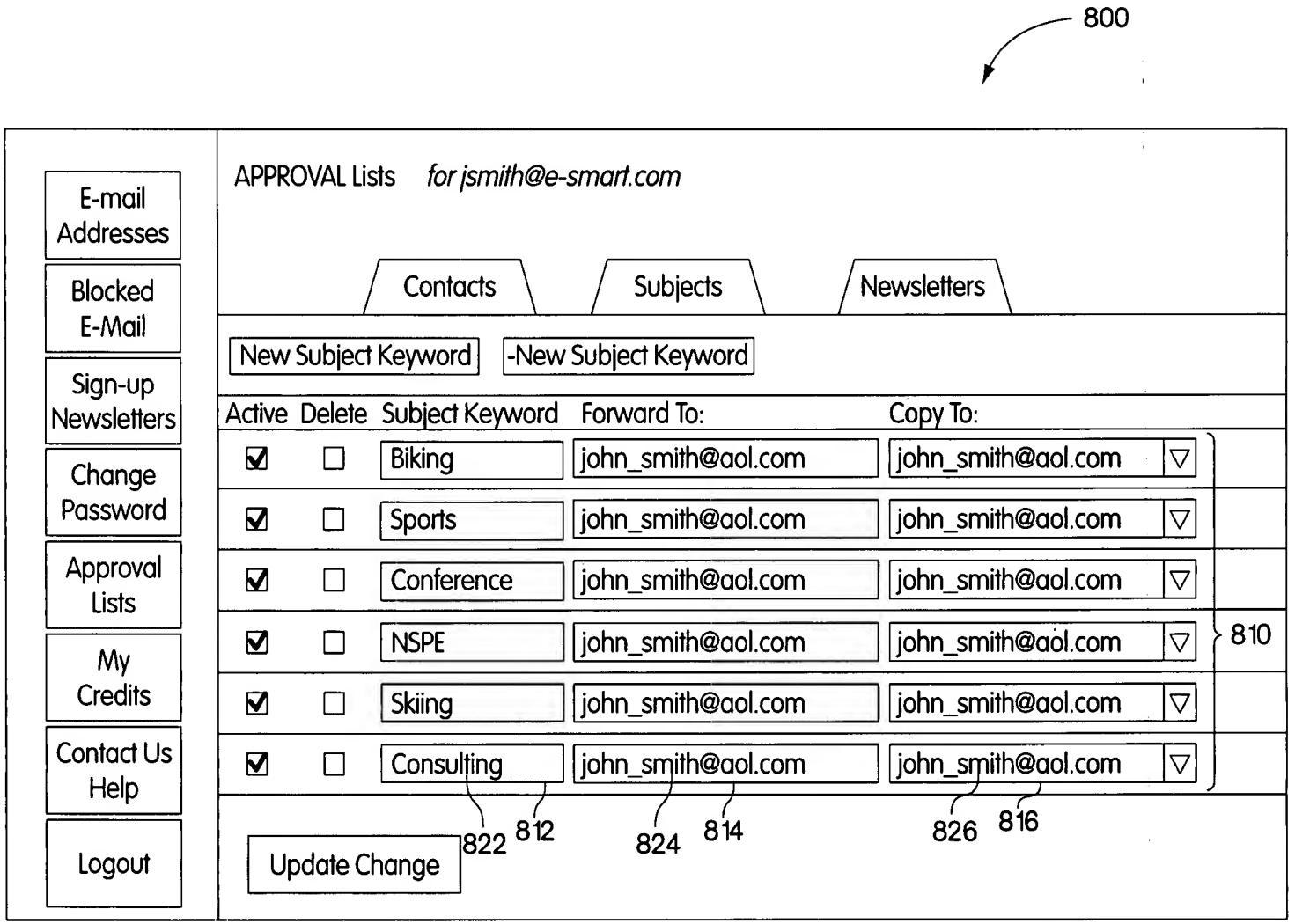
800
E-mail Addresses
Blocked E-Mail
Sign-up Newsletters
Change Password
Approval Lists
My Credits
Contact Us Help
Logout
APPROVAL Lists for jsmith@e-smart.com
Contacts
Subjects
Newsletters
New Subject Keyword
-New Subject Keyword
Active
Delete
Subject Keyword
Forward To:
Copy To:
Biking
Sports
Conference
NSPE
Skiing
Consulting
john_smith@aol.com
810
Update Change
822
812
824
814
826
816

Fig. 8

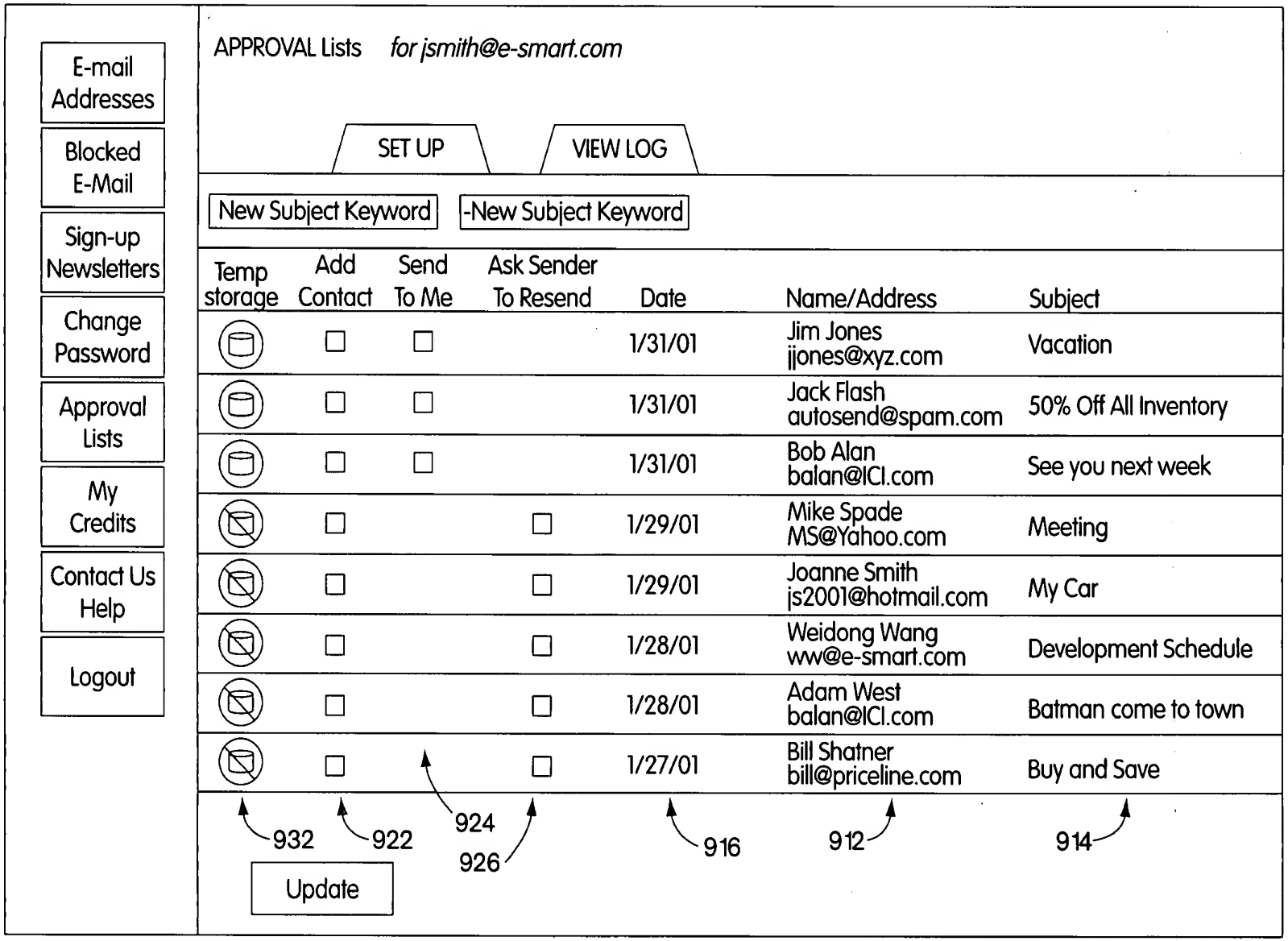
E-mail Addresses
Blocked E-Mail
Sign-up Newsletters
Change Password
Approval Lists
My Credits
Contact Us Help
Logout
APPROVAL Lists for jsmith@e-smart.com
900
SET UP
VIEW LOG
New Subject Keyword
-New Subject Keyword
Temp storage
Add Contact
Send To Me
Ask Sender To Resend
Date
Name/Address
Subject
1/31/01 Jim Jones jjones@xyz.com Vacation
1/31/01 Jack Flash autosend@spam.com 50% Off All Inventory
1/31/01 Bob Alan balan@ICI.com See you next week
1/29/01 Mike Spade MS@Yahoo.com Meeting
1/29/01 Joanne Smith js2001@hotmail.com My Car
1/28/01 Weidong Wang ww@e-smart.com Development Schedule
1/28/01 Adam West balan@ICI.com Batman come to town
1/27/01 Bill Shatner bill@priceline.com Buy and Save
911
932
922
924
926
916
912
914
Update

Fig. 9

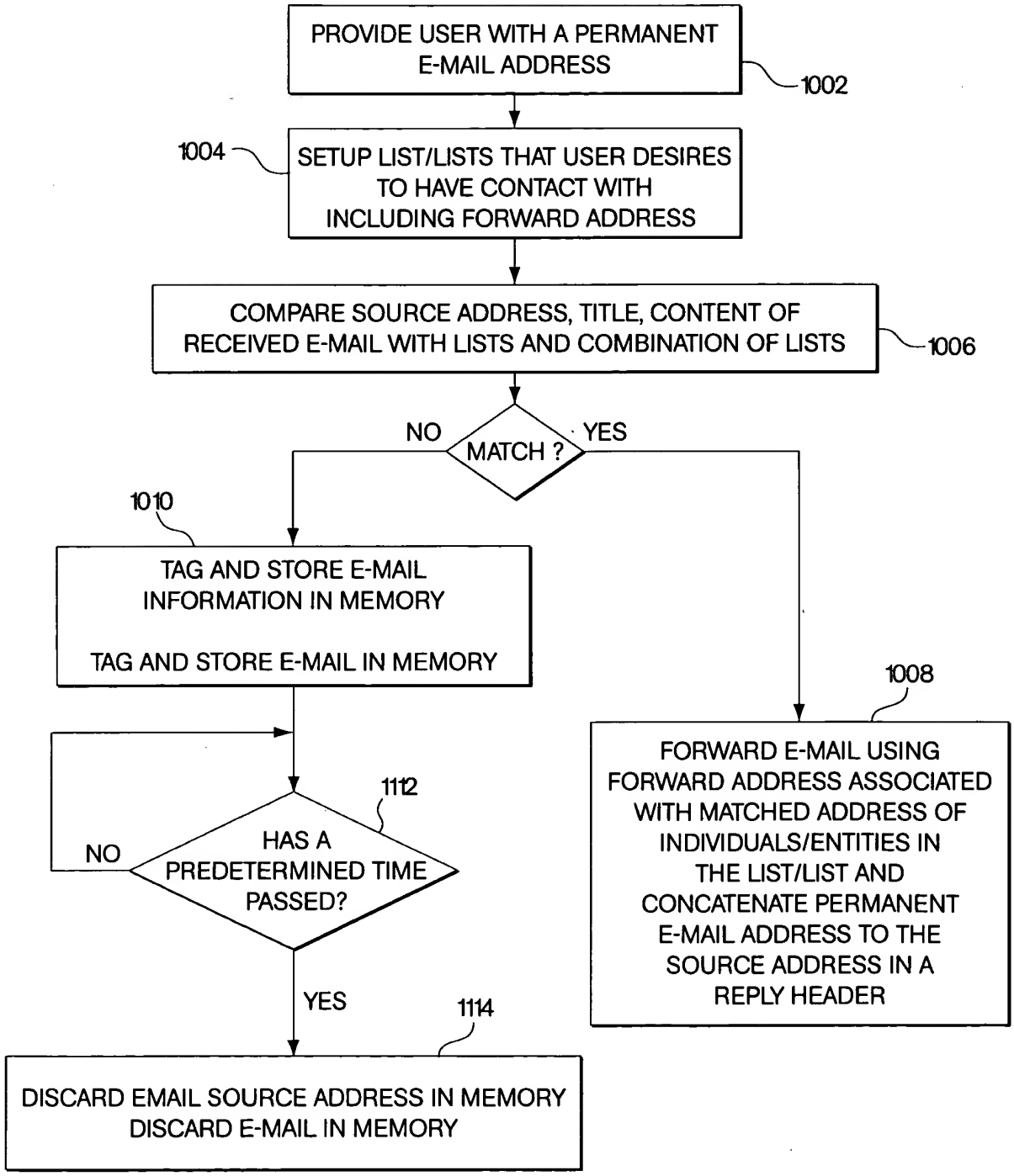
PROVIDE USER WITH A PERMANENT E-MAIL ADDRESS
1002
1004
SETUP LIST/LISTS THAT USER DESIRES TO HAVE CONTACT WITH INCLUDING FORWARD ADDRESS
COMPARE SOURCE ADDRESS, TITLE, CONTENT OF RECEIVED E-MAIL WITH LISTS AND COMBINATION OF LISTS
1006
NO
MATCH ?
YES
1010
TAG AND STORE E-MAIL INFORMATION IN MEMORY
TAG AND STORE E-MAIL IN MEMORY
1008
FORWARD E-MAIL USING FORWARD ADDRESS ASSOCIATED WITH MATCHED ADDRESS OF INDIVIDUALS/ENTITIES IN THE LIST/LIST AND CONCATENATE PERMANENT E-MAIL ADDRESS TO THE SOURCE ADDRESS IN A REPLY HEADER
1112
NO
HAS A PREDETERMINED TIME PASSED?
YES
1114
DISCARD EMAIL SOURCE ADDRESS IN MEMORY
DISCARD E-MAIL IN MEMORY

Fig. 10

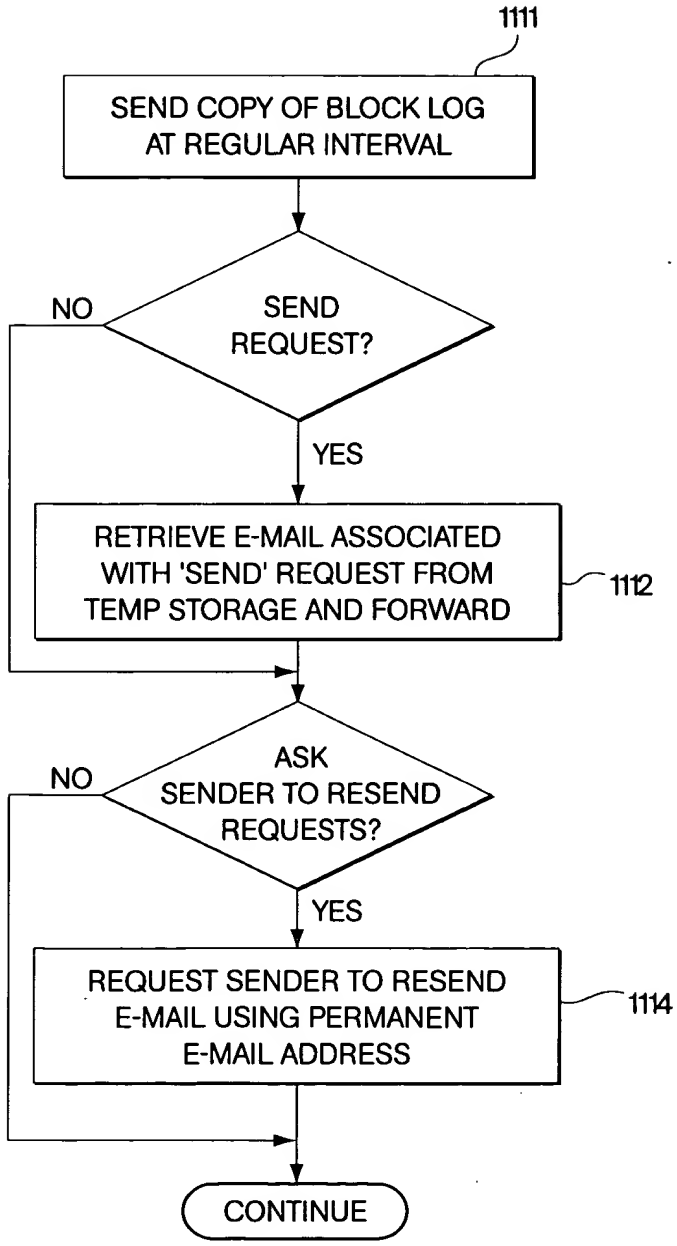
1111
SEND COPY OF BLOCK LOG AT REGULAR INTERVAL
SEND REQUEST?
NO
YES
RETRIEVE E-MAIL ASSOCIATED WITH 'SEND' REQUEST FROM TEMP STORAGE AND FORWARD
1112
ASK SENDER TO RESEND REQUESTS?
NO
YES
REQUEST SENDER TO RESEND E-MAIL USING PERMANENT E-MAIL ADDRESS
1114
CONTINUE

Fig. 11